

The State of the Central Valley Region



Pamela Creedon, Executive Officer

December 4, 2014

Item 5

Outline

- Background
- Status of Major Programs
- Achievements
- Summary



Central Valley Region Facts

- Nearly 40% of State's Land area
- 18% of State's population
- 2/3 of State's drinking water
- Nearly 30 million acre-feet of reservoir storage



Staffing

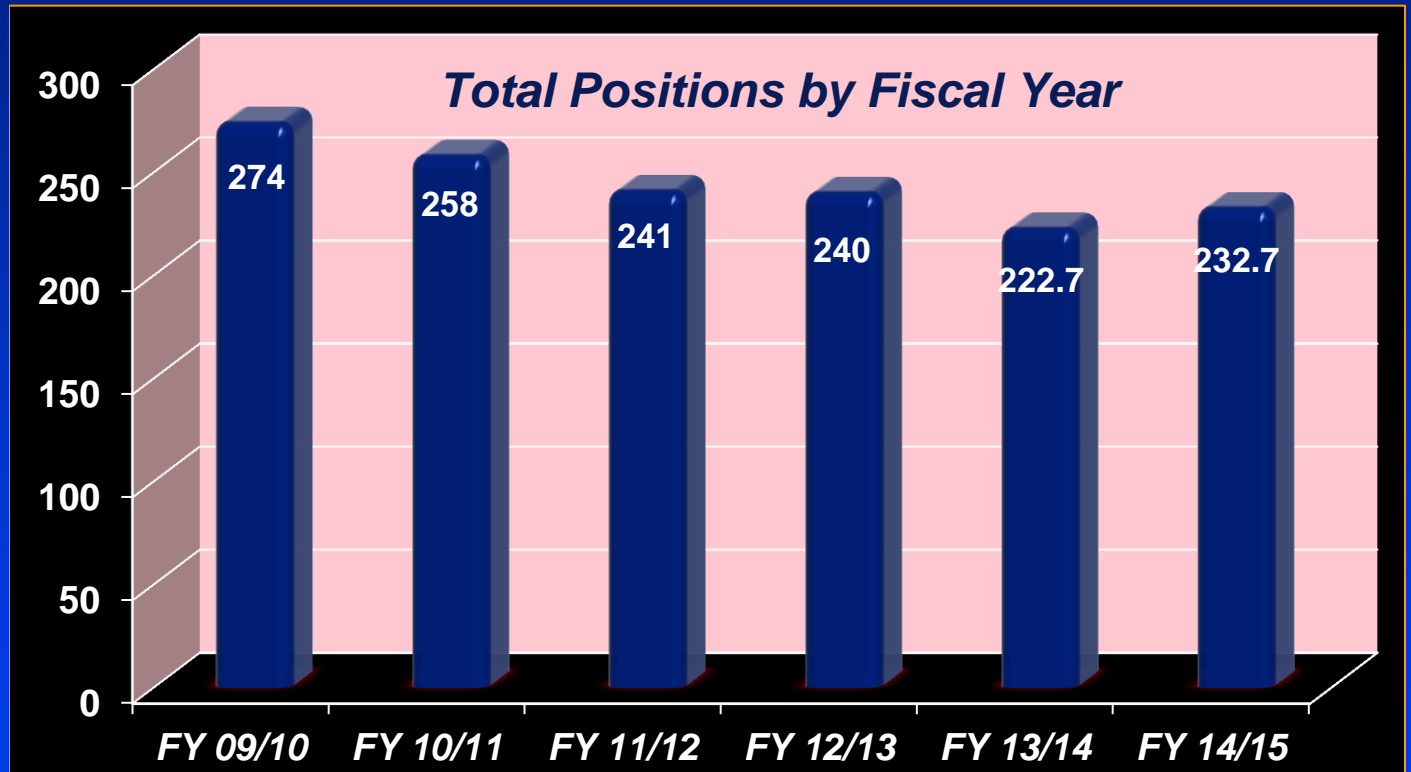


Central Valley Region Staff Facts

● Staff

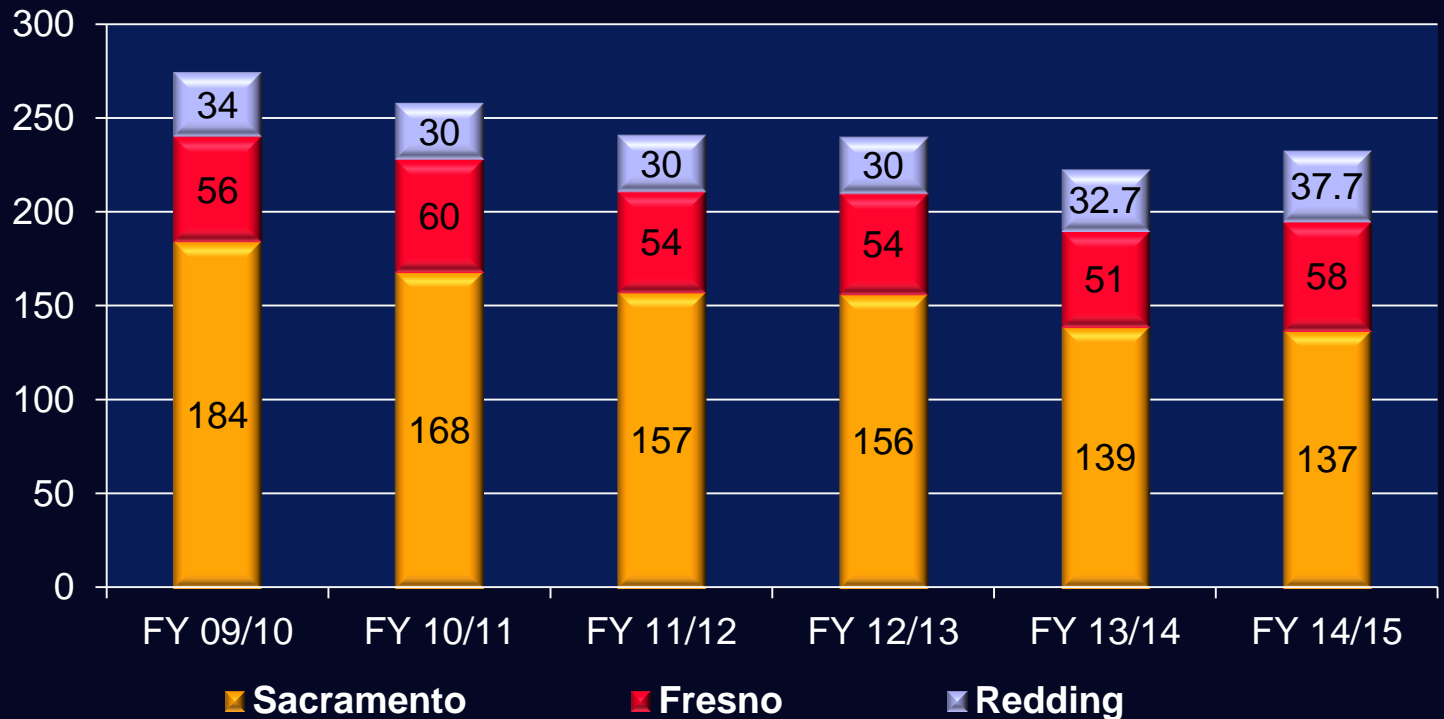
- ◆ \$33.8 million personal services
- ◆ 232.7 authorized positions
 - 50 managers
 - 171.7 technical staff
 - 11 support staff
- ◆ 42 – temp help

Central Valley Region Staff Facts



Central Valley Region Staff Facts

● Authorized Positions by Fiscal Year



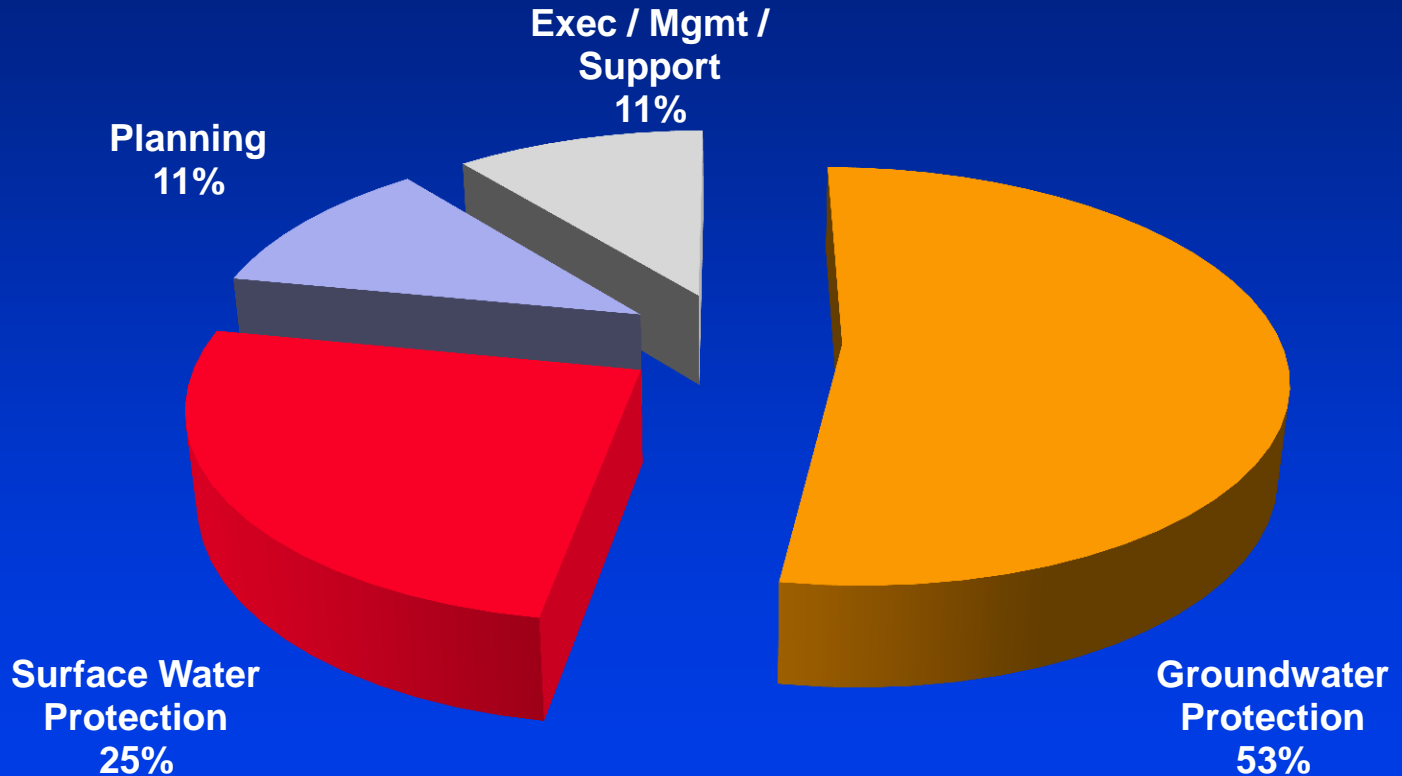
Central Valley Region Staff Facts

- Potential Retirements in Next 2 Years

	Redding	Fresno	Sac
Mgmt	1	0	2
Tech Staff	1	0	1
Support	0	0	0

Central Valley Region

Staff Distribution by Major Programs

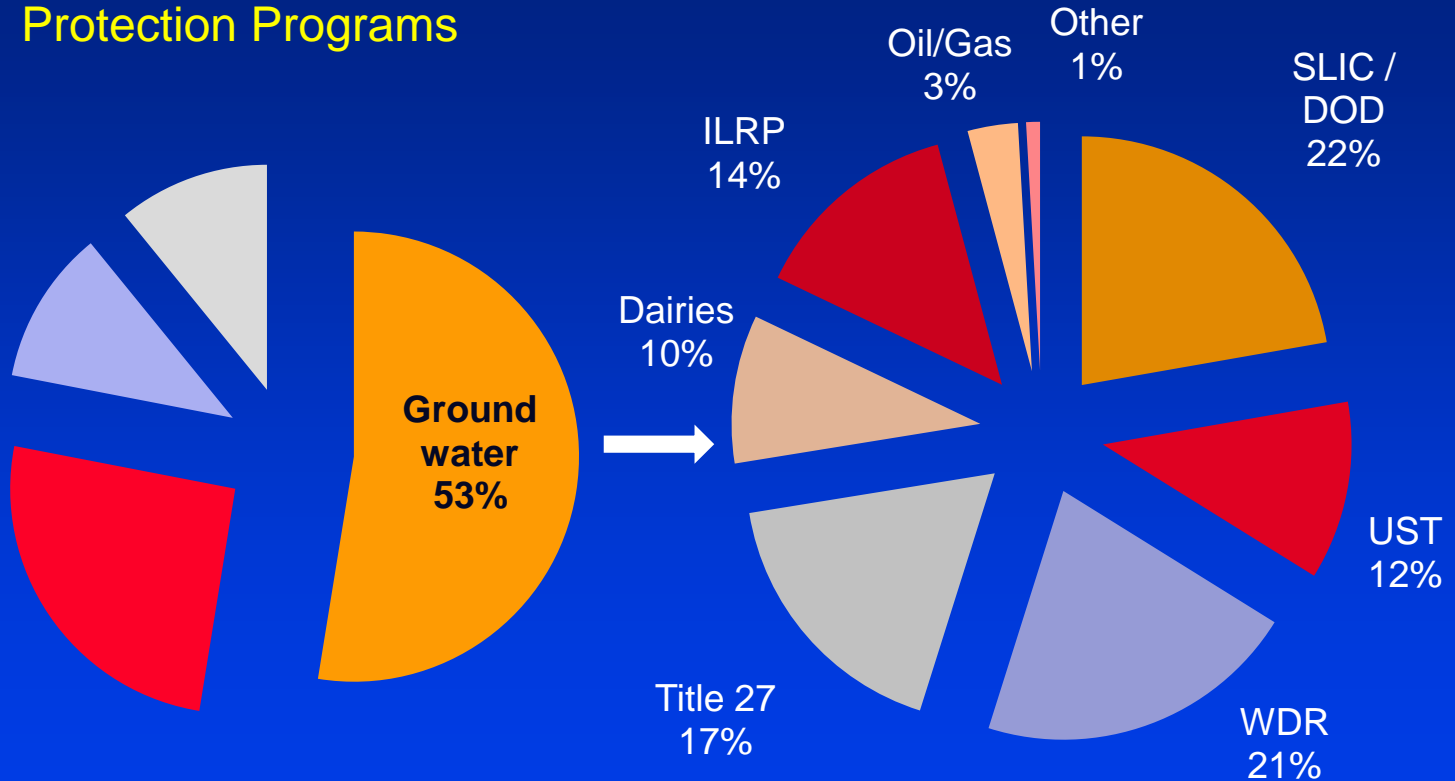


Ground Water Protection



Groundwater Protection

Staff Distribution between GW Protection Programs



Groundwater Quality Protection Strategy



- Approved 2010
- June 2011 Workplan
- High Priority Actions
 - CV-SALTS
 - Long-Term ILRP
 - Reduce WDR backlog and increase facilities regulated
- Updated Workplan 2013
- Medium Priority Action

Groundwater Quality Protection Strategy

- Coordination with Integrated Regional Water Management Planning Groups (IRWMs)
- Expansion of CAFO Program
- Reduce Site Cleanup Backlog

WDR Program

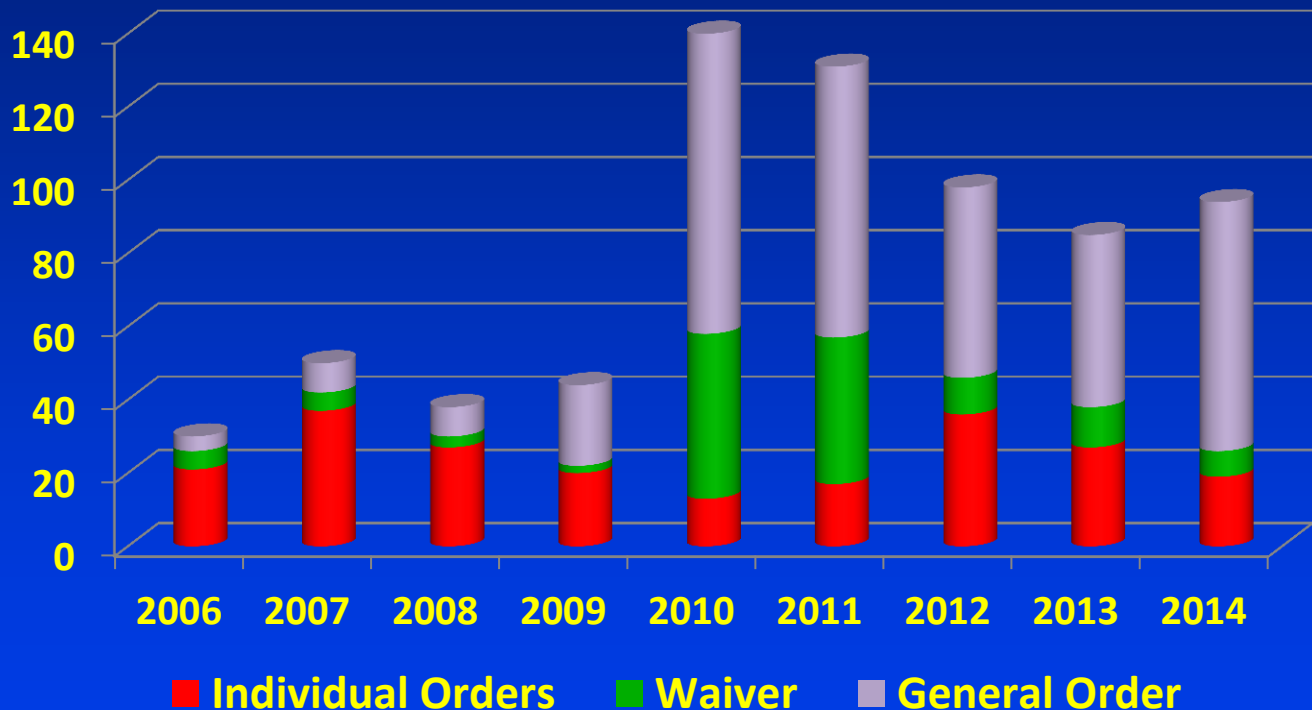


Over 1,400 Facilities

26 PYs



WDR Permitting Program



WDR Program's Future

- New State-wide Recycling Order
- New Small Domestic Systems Order
- Renew Small Food Process Waiver
- Additional General Orders

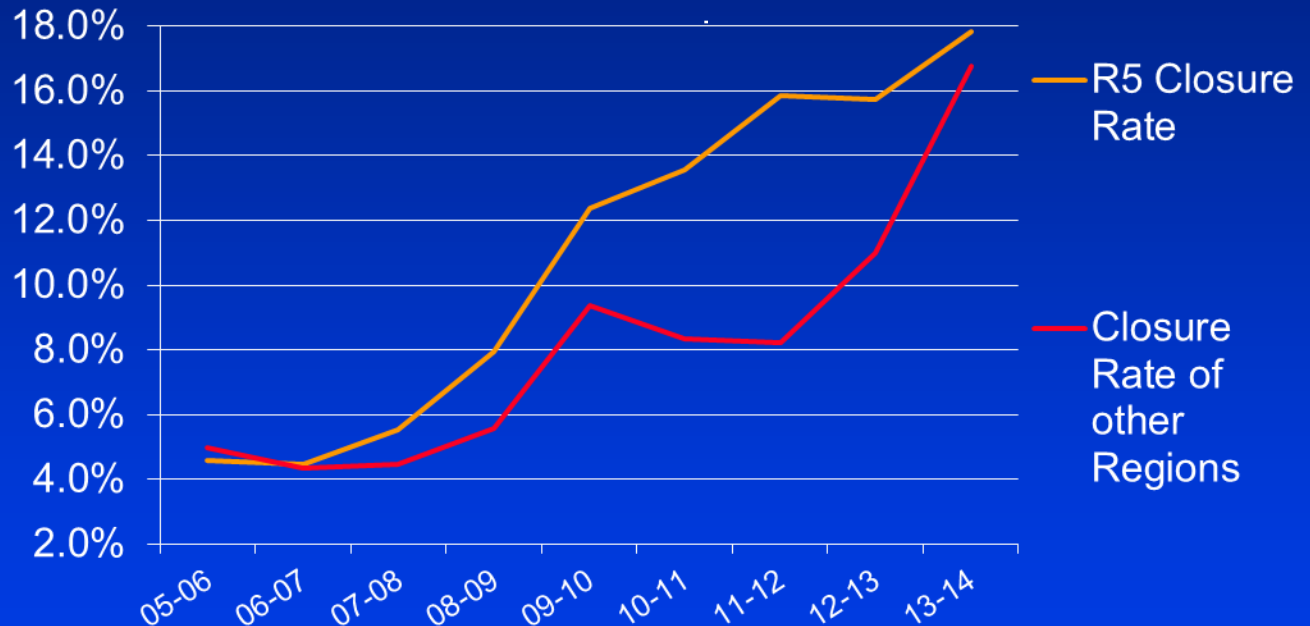
Dairy (CAFO) Program

- 1,400 dairies
- 1.7 million cows
- 12 PYs
- Reissued Dairy General Order

Dairy (CAFO) Program

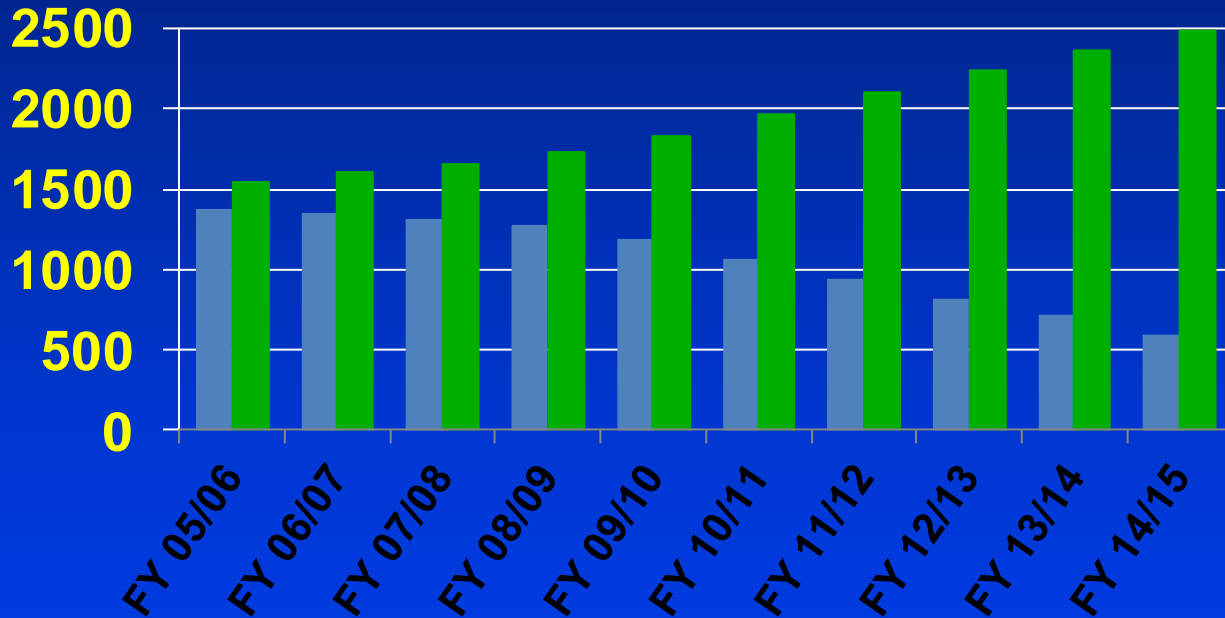
- Compliance and Enforcement
- Permitting
 - ◆ Poultry
 - ◆ Bovine Feedlots
 - ◆ Irrigated Agriculture
- Representative Monitoring Program
- State Board Review and Fee Audit

R5 UST Closure Rates



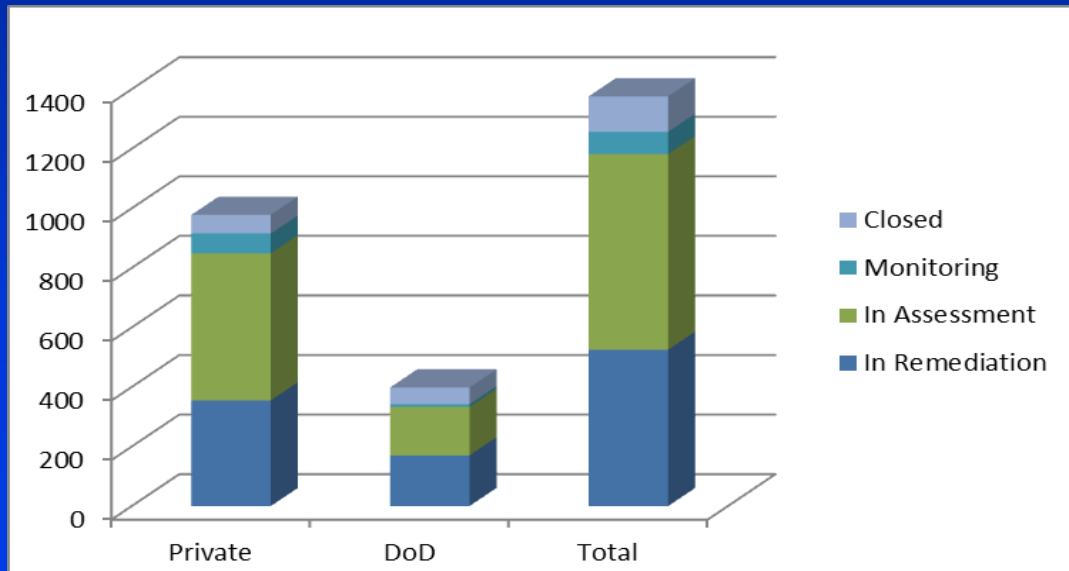
UST Cleanup Program

Open versus Closed UST cases



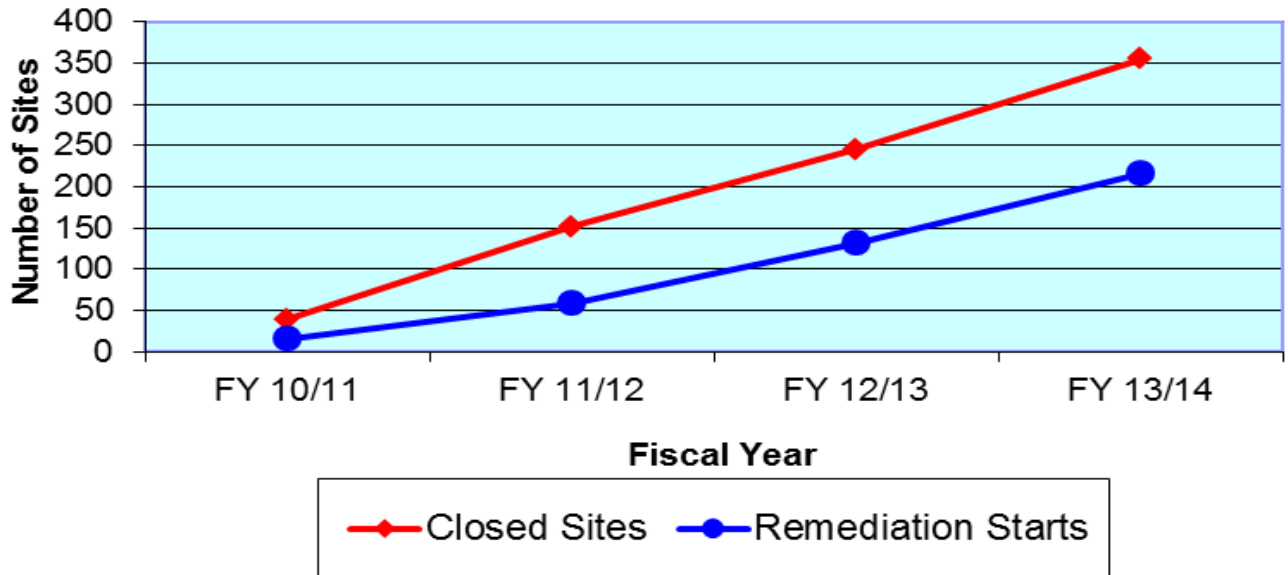
Site Cleanup Program

- Active Sites: 1240
- Sites in Remediation: 525
- Sites Closed FY 13/14 and 14/15: 119

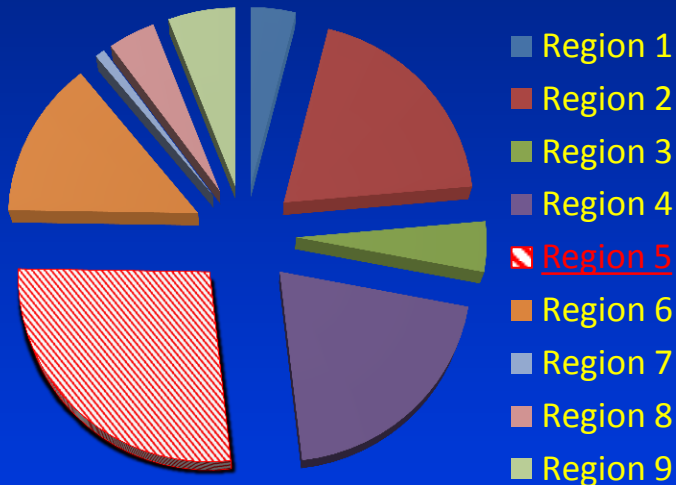


Site Cleanup Program

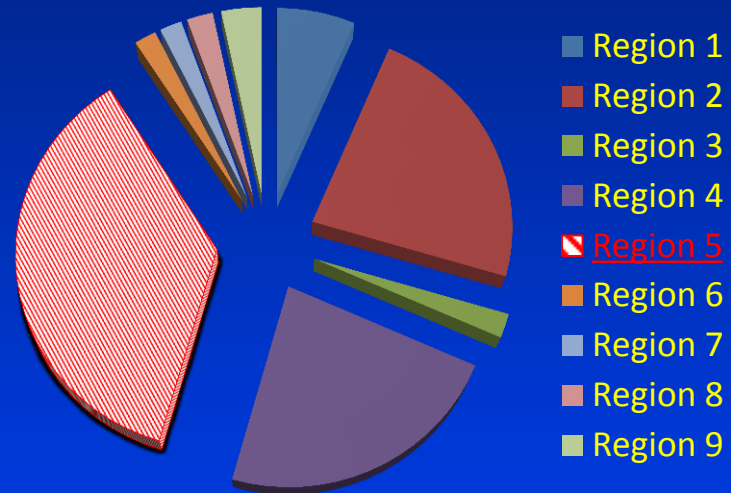
Performance Indicators 2010-2014



Site Cleanup Program



Total Active Cases Statewide
By Region



Cases Closed and Moved
To Remediation Statewide by Region
FY 13/14

Site Cleanup Program



Site Cleanup Program

Program Trends for Next Year:

- Increasing Brownfields and Redevelopment Work
- Renewal of Underground Tank Fund Legislation Included Funding for Non-tank Cleanups
- Evaluation of Petroleum Sites for Closure
- Increasing Concerns about Groundwater Quality

Land Disposal Program

- Prescriptive
- Preventative
 - ◆ Landfills
 - ◆ High strength wastes
 - ◆ Dairies
 - ◆ Oil fields
 - ◆ Mining



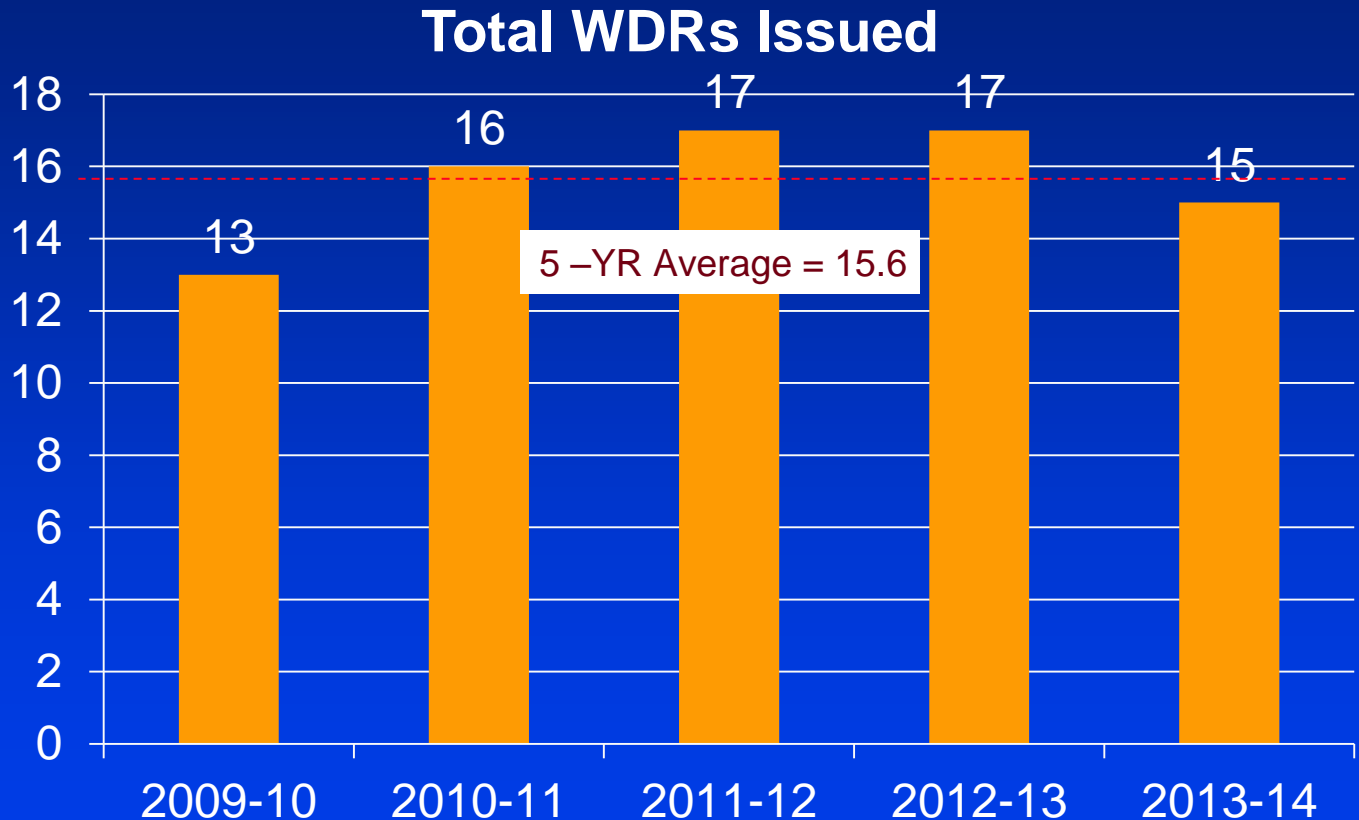
Land Disposal Program

21 PYs

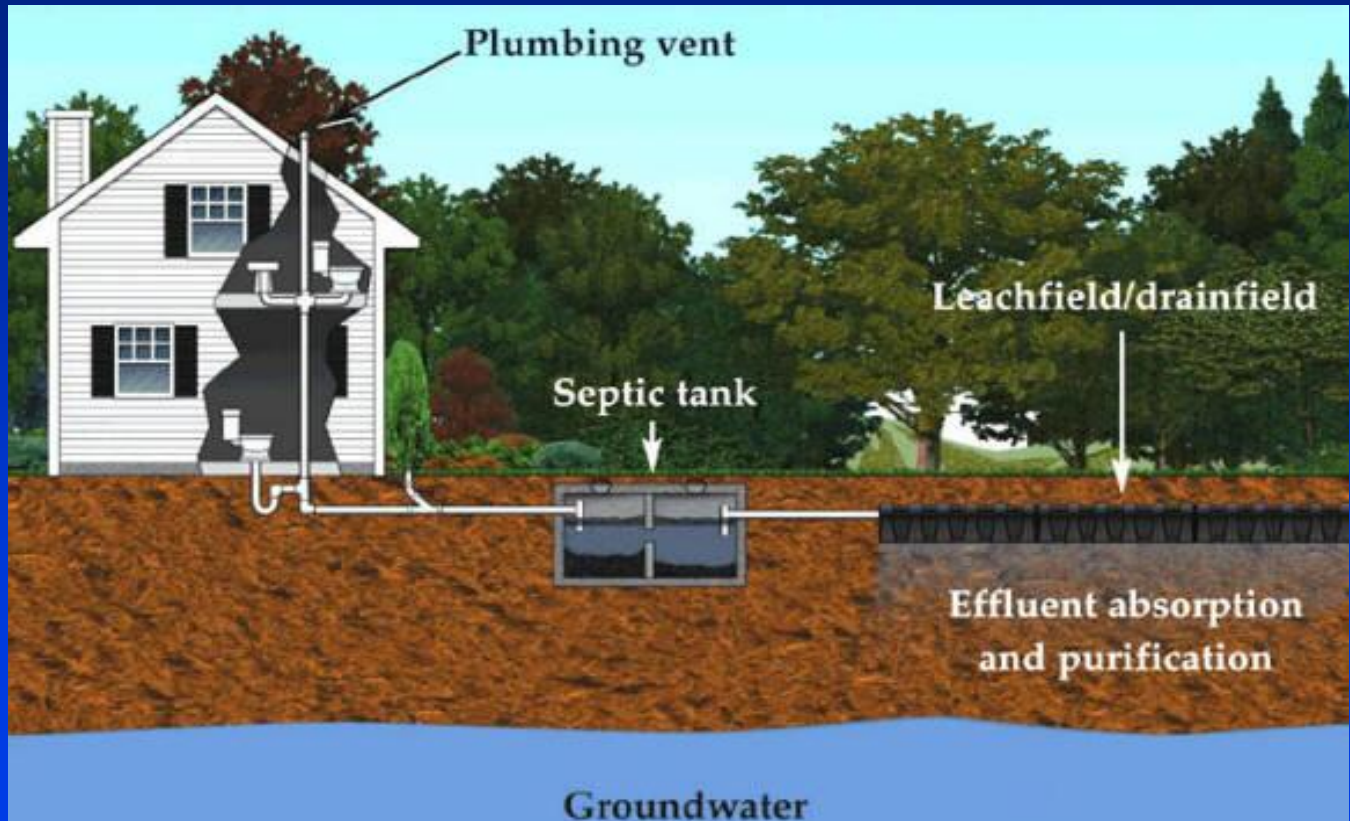
- 9 Fresno
- 3 Redding
- 9 Sacramento



Land Disposal Program (Title 27)



Onsite Wastewater Treatment System (OWTS) Policy



OWTS Implementation

- Effective May 2013
- Basin Plan Amended March 2014
- 30 local agencies LAMPs by May 2016
 - ◆ Water Board approval by May 2017
- Staff preparing checklist for LAMP development by agencies

Oil Fields

- 7 PYs
- Well Stimulation (SB4)
- Underground Injection Control (UIC)
- Sumps

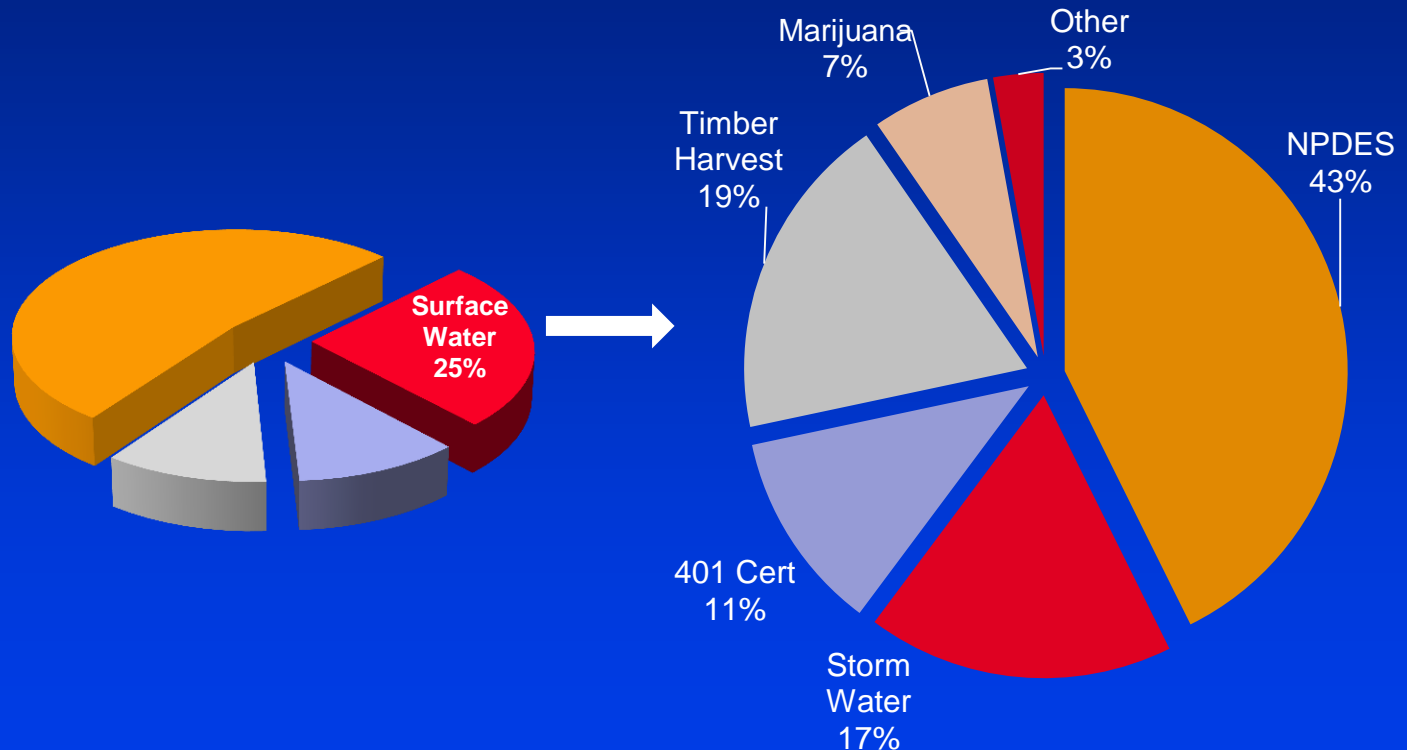


Surface Water Protection



Surface Water Protection

Staff Distribution between Surface Protection Programs



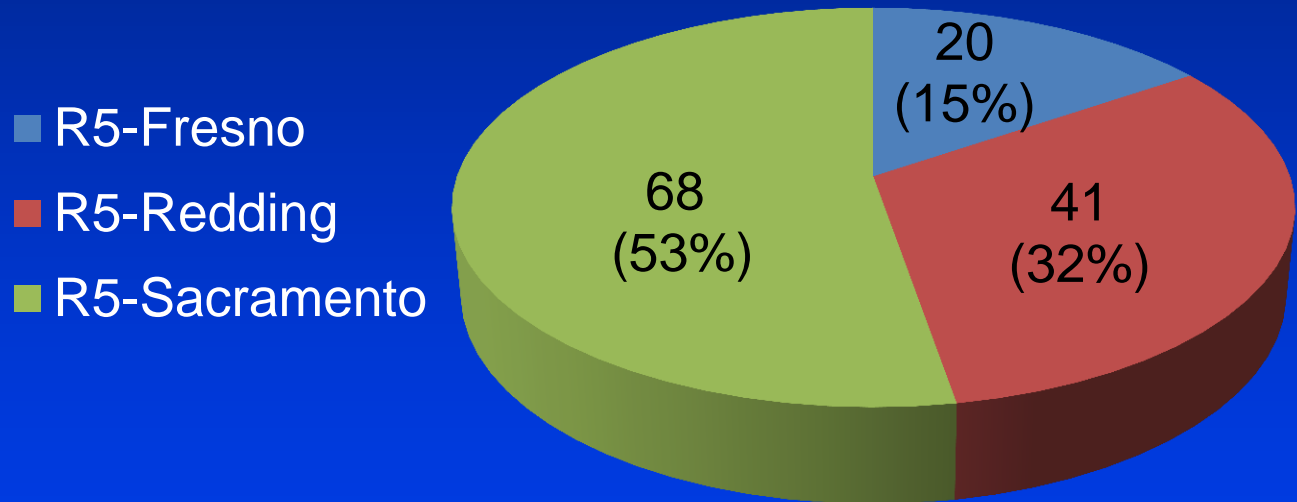
NPDES Permitting Program

- 16.7 PY
- 129 Individual Permits
- 26% of State
- 52 majors
- 77 minors



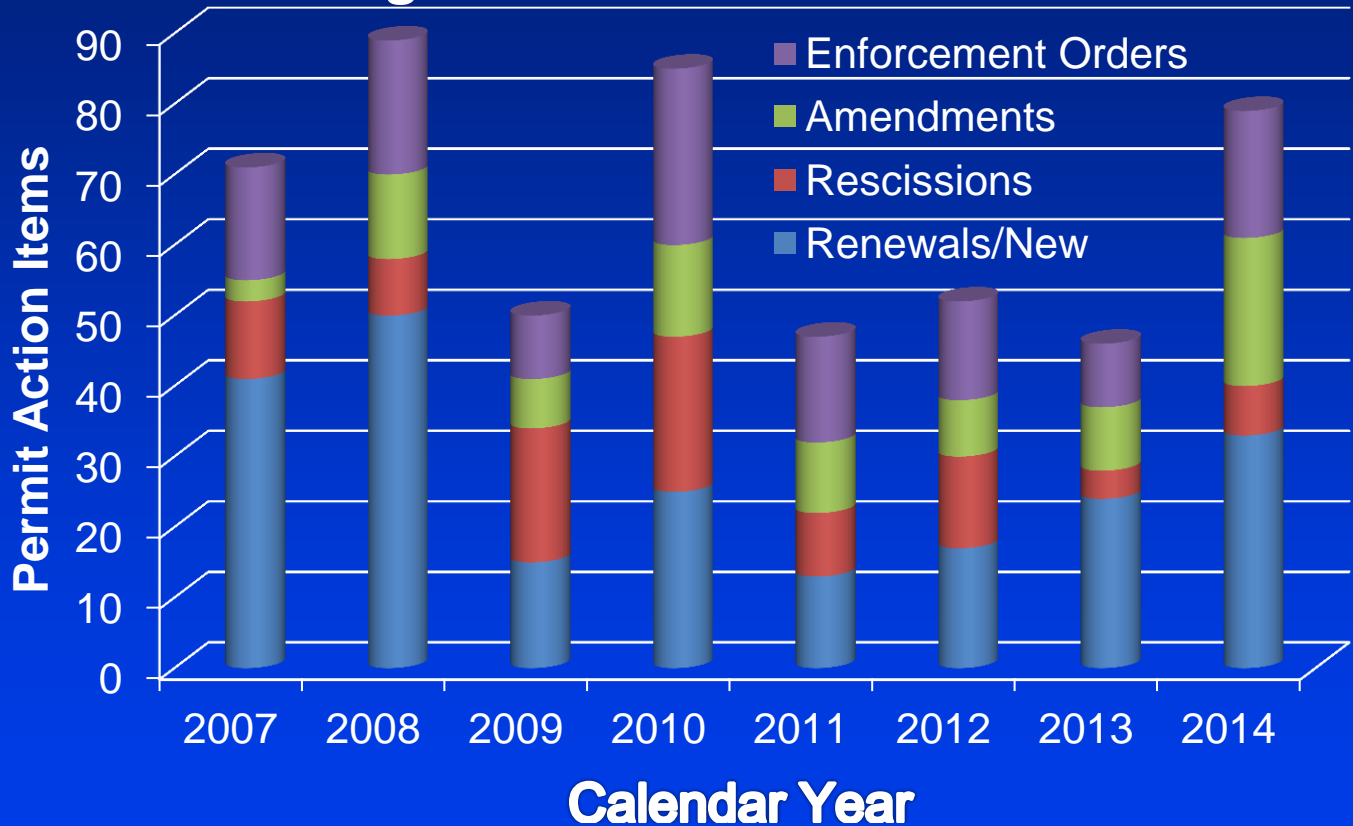
NPDES Permitting Program

NPDES Permits by Office Total 129



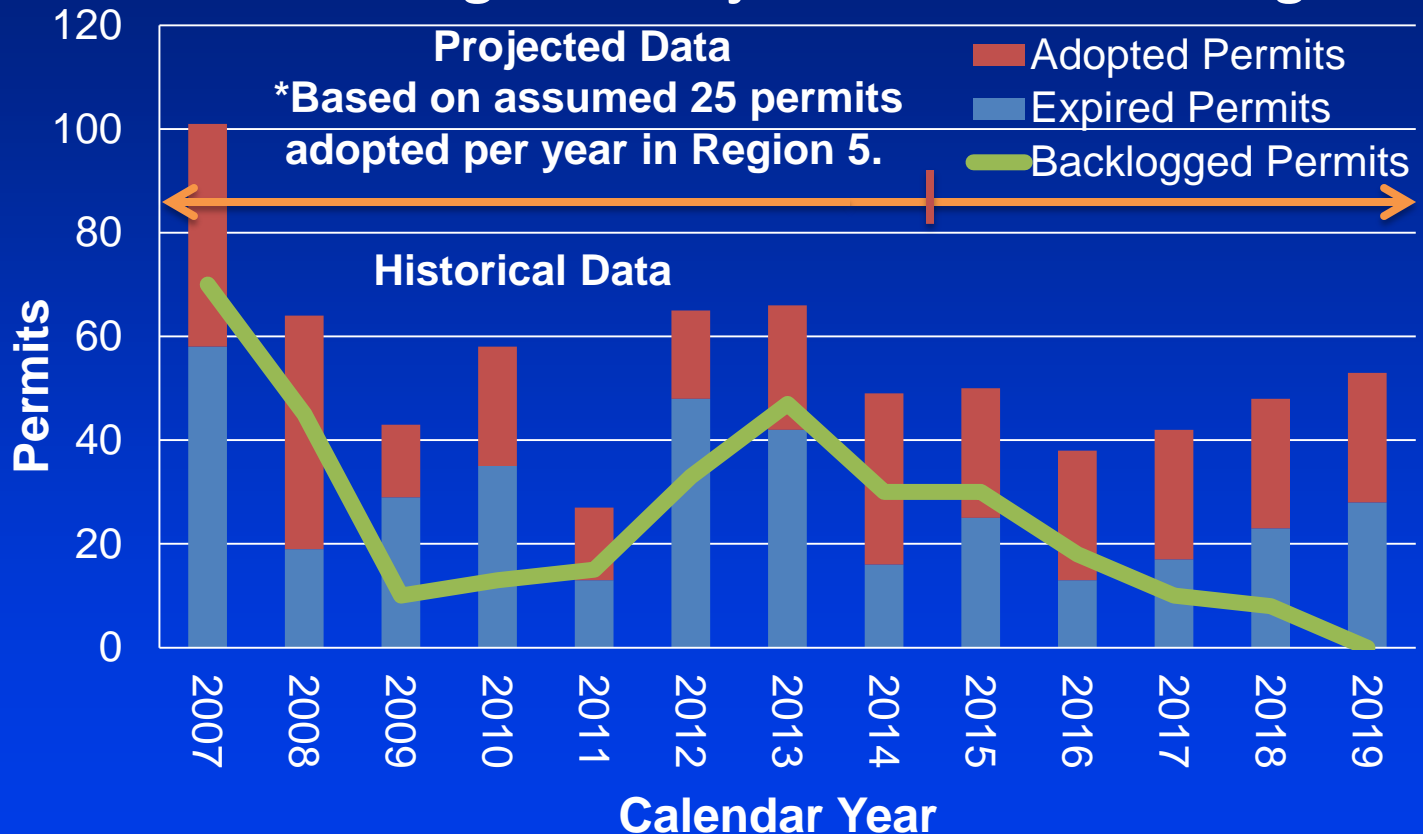
NPDES Permitting Program

Region 5 Permit Action Items



NPDES Permitting Program

Region 5 Projected Permit Backlog



NPDES Storm Water Program

- 11.1 PYs
- Municipal Separate Storm Sewer Systems
- Industrial Storm Water
 - ◆ 1,872 enrollees
- Construction Storm Water
 - ◆ 2,215 enrollees

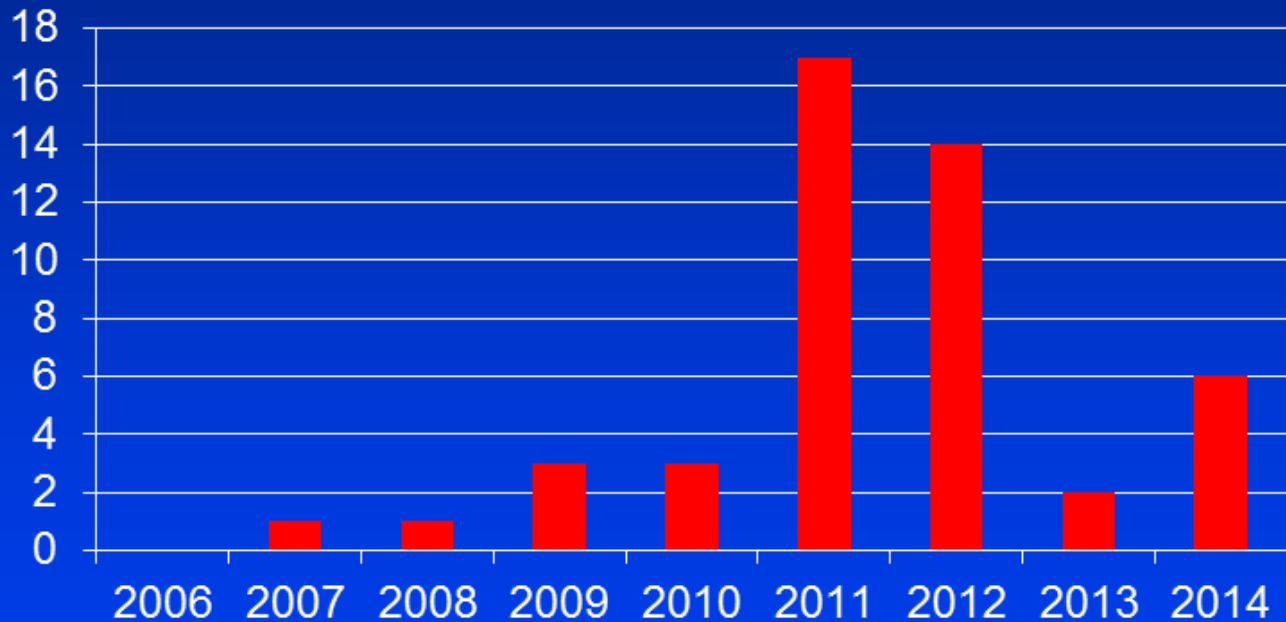


NPDES Storm Water Program

- 129 MS4 permittees
 - ◆ 21 Phase I
 - ◆ 108 Phase II
- Redding: 12
- Sacramento: 76
- Fresno: 41

NPDES Storm Water Program

MS4 Inspections

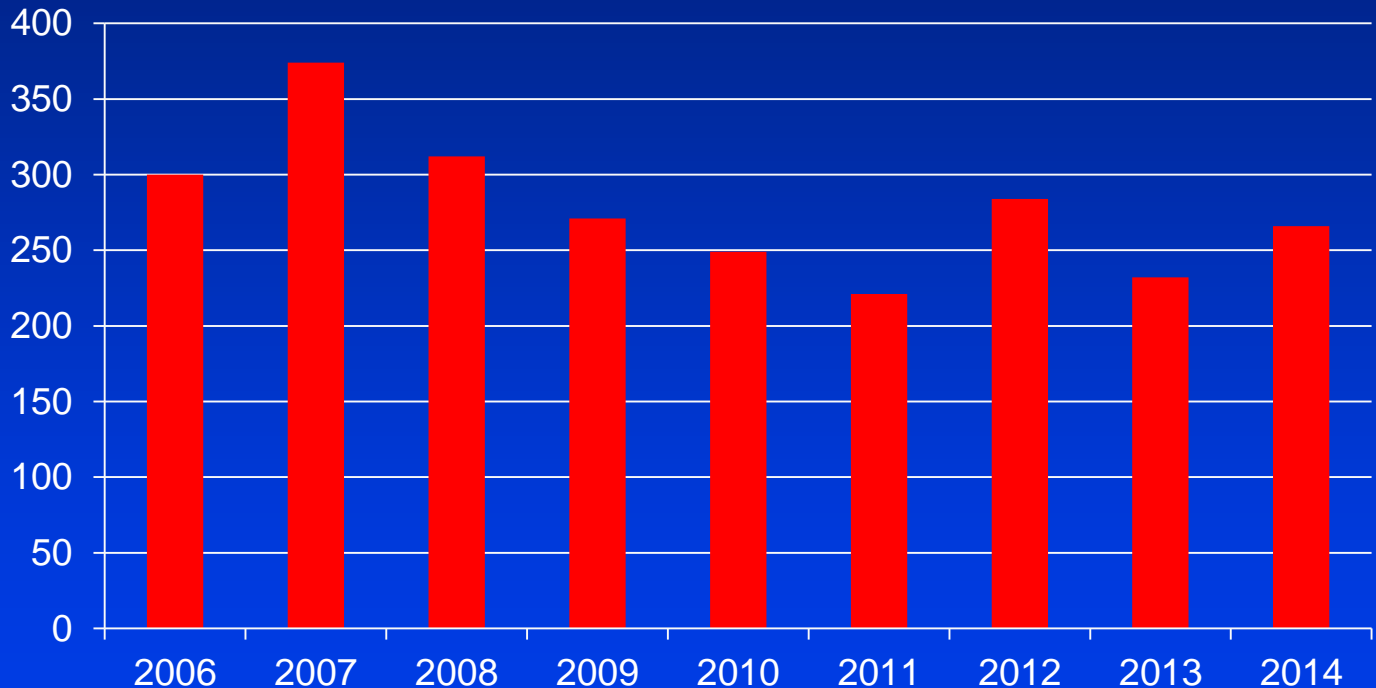


Water Quality Certification Program

- 7.8 PYs
- 250 or more water quality certifications processed per year
 - ◆ 46 Redding
 - ◆ 185 Sacramento
 - ◆ 34 Fresno

Water Quality Certification Program

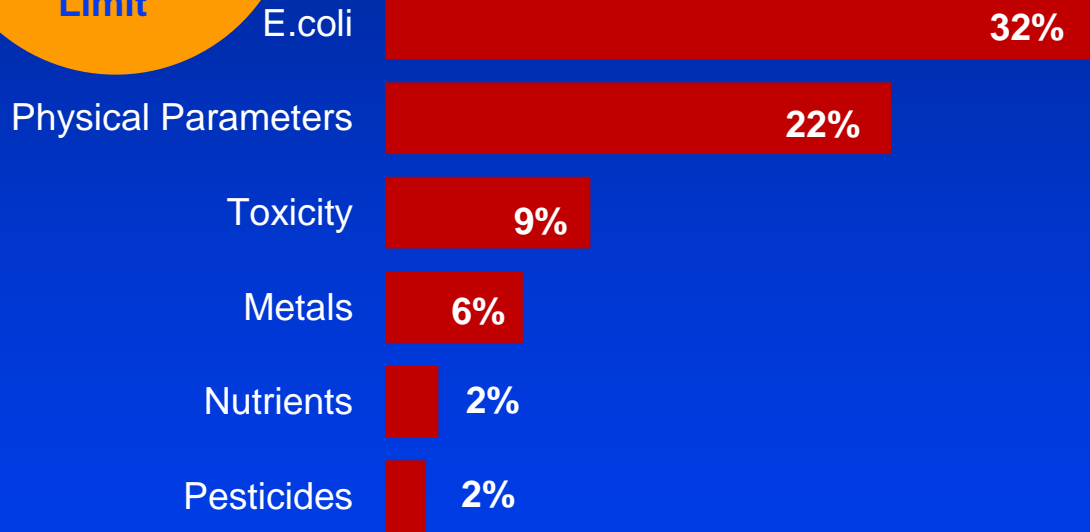
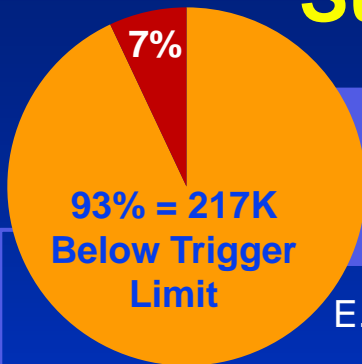
Certifications Issued



Irrigated Lands Regulatory Program (ILRP)

- ILRP addresses discharge to surface water & groundwater
 - ◆ 7 million acres
- 18 PY total
 - ◆ 1 Redding, 6 Fresno, 11 Rancho
 - ◆ about 2,000 dischargers per staff

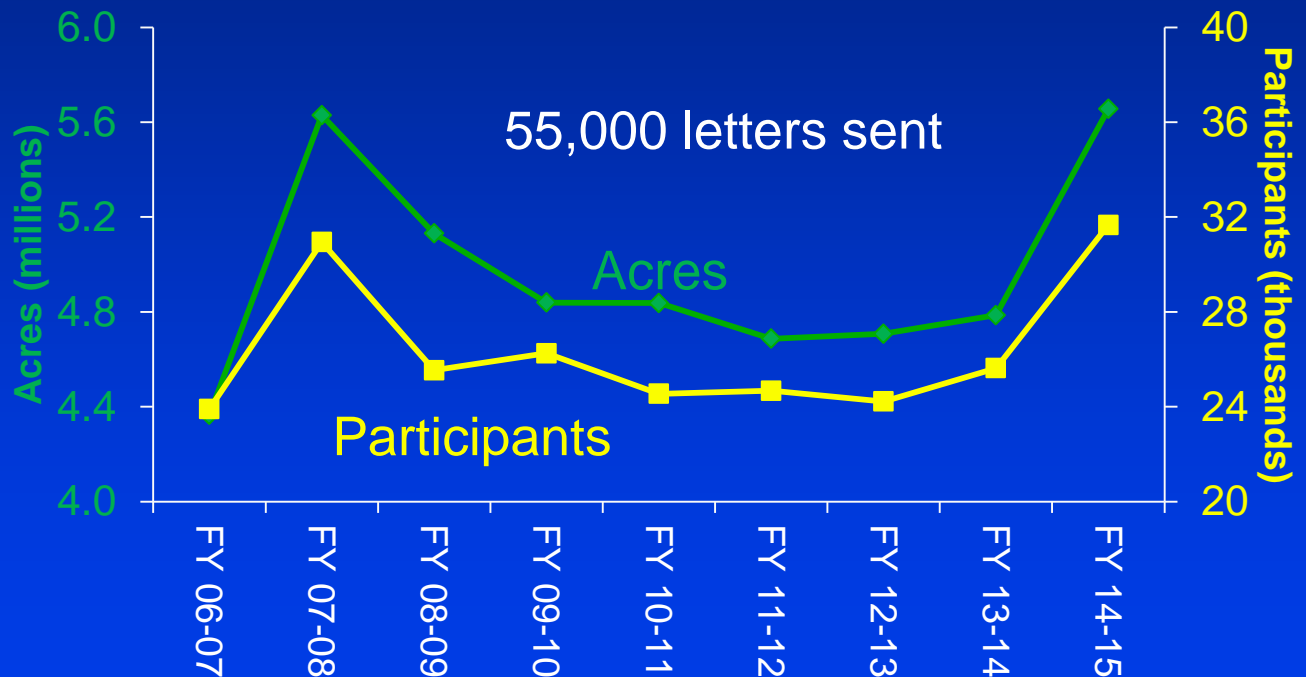
Irrigated Lands Regulatory Program Surface Water Results



Irrigated Lands Regulatory Program

Key Trends

Participant Trend Line 2006-2014



Irrigated Lands Regulatory Program

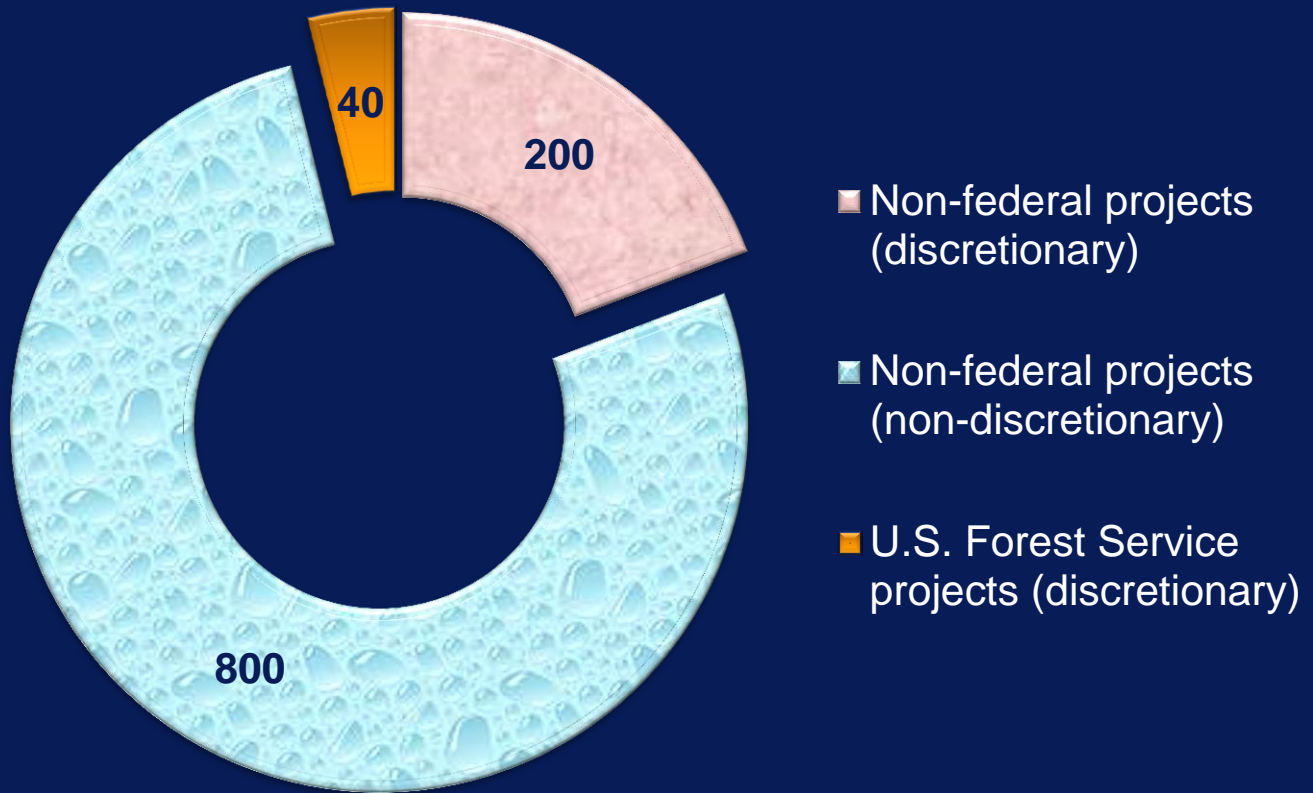
Coming year

- State Board consideration of Eastern San Joaquin Petitions
- Compliance/enforcement focused on non-participants
- Foundational technical reports – e.g., Groundwater Quality Assessment Report

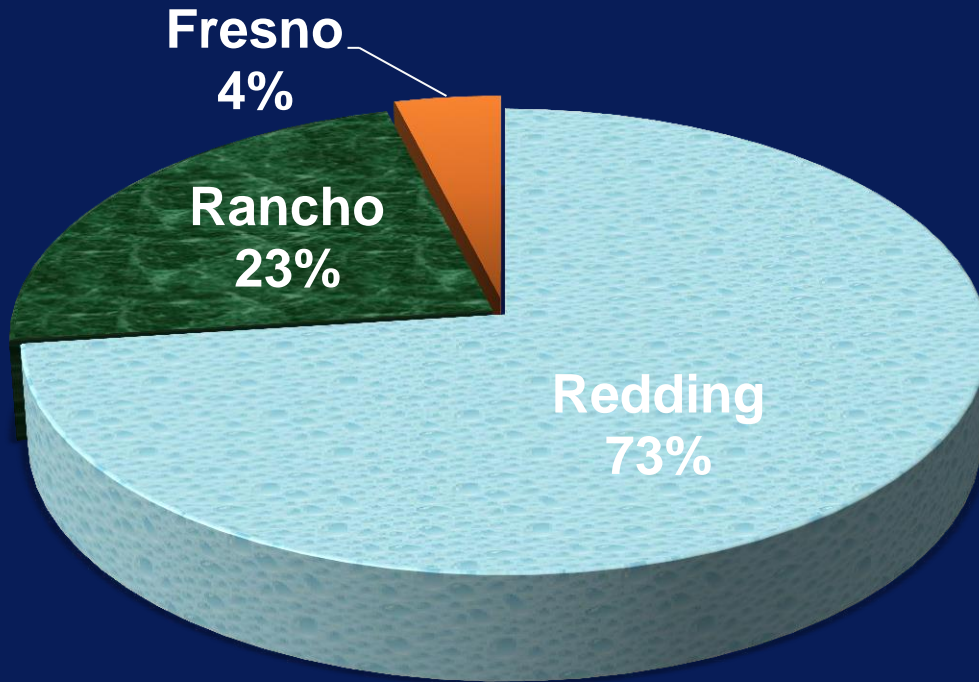
Forest Activities Program



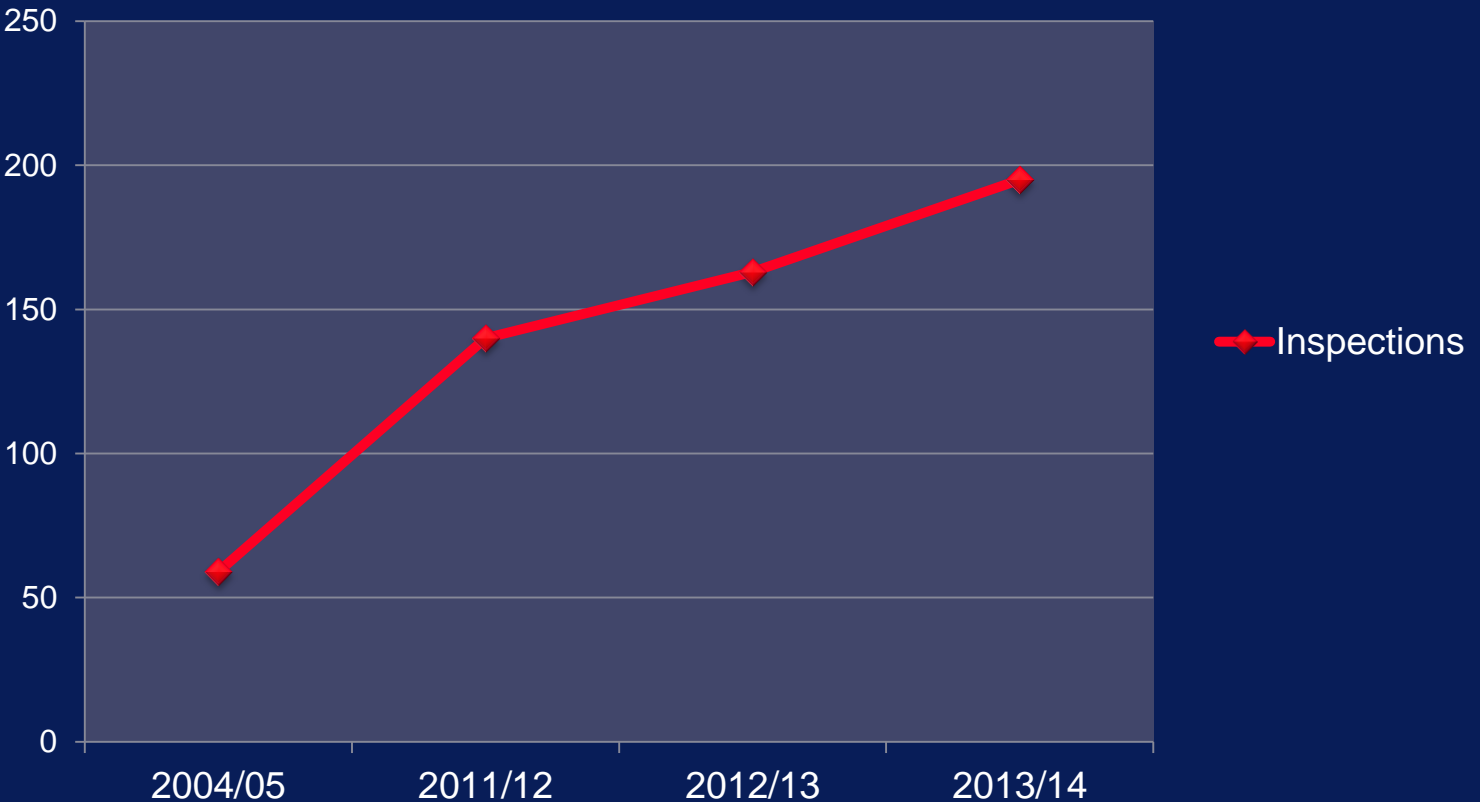
Annual Timber Harvesting Projects in Central Valley Region



Forest Activities Program Internal Workload Distribution



Forest Activities Program Inspections Conducted

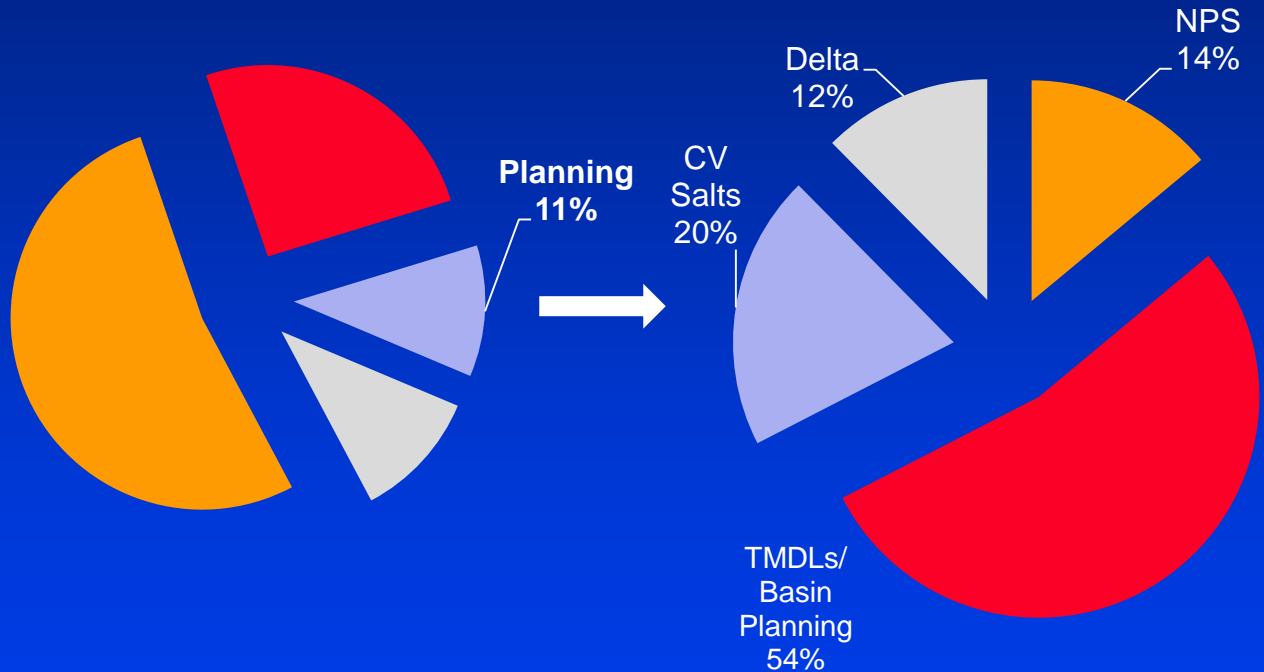


Forest Activities Program Looking Ahead

- AB 1492 requirements
- Cumulative impacts
- Wildfire and salvage harvesting
- Timber Waiver renewal and new permit
- U.S. Forest Service non-point source permit
- MOU with U.S. Forest Service for BAER participation

Planning

Staff Distribution between Planning Programs



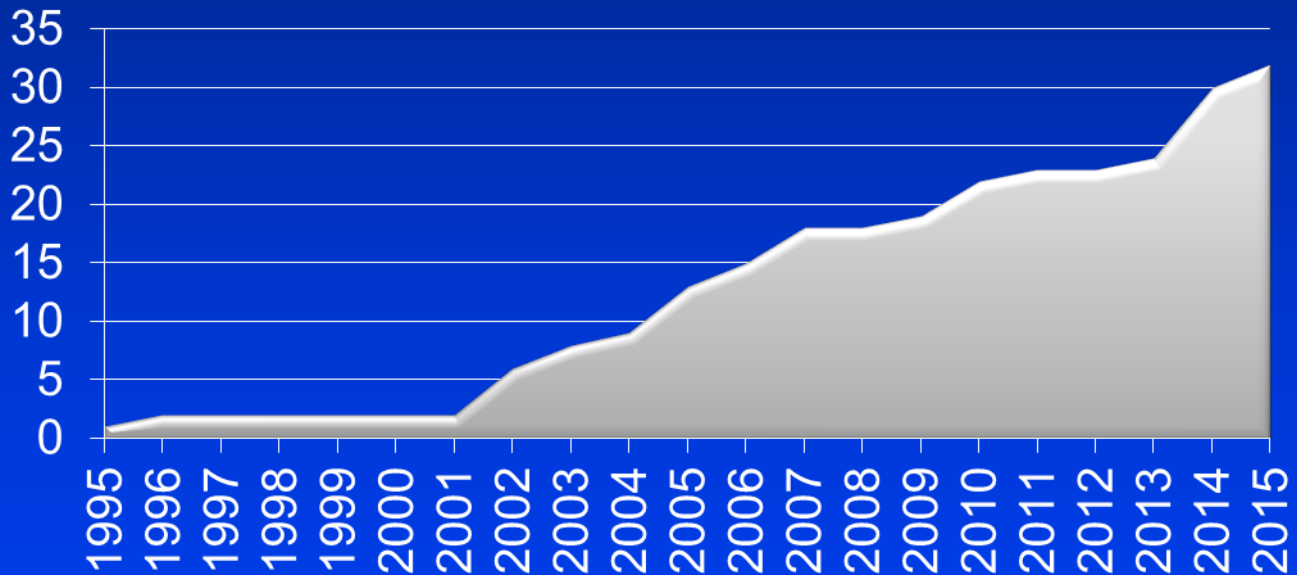
Basin Planning and TMDL Programs

- 19.2 PYs
 - ◆ State fee based (17 PYs)
 - ◆ Federal grant (2.2 PYs)
- Activities
 - ◆ Integrated Report (303(d) list)
 - ◆ Develop and implement TMDLs
 - ◆ Develop Basin Plan Amendments



Basin Planning and TMDLs

Total Amendments since 1995



Key Basin Plan Amendments

Drinking Water Policy

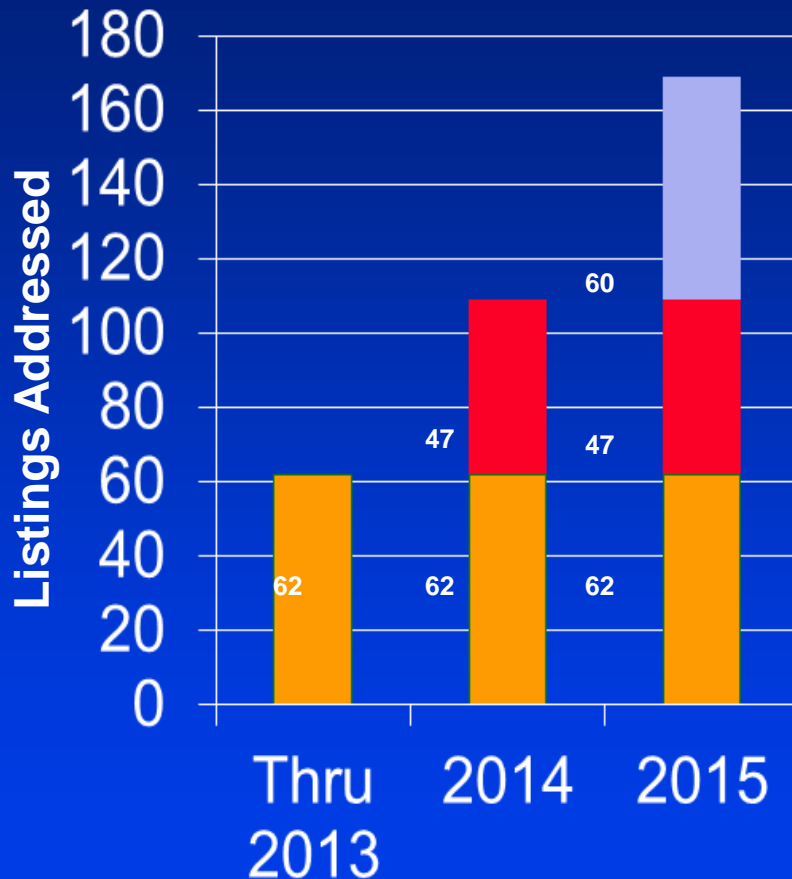
- Narrative objectives for Giardia and Cryptosporidium
- Focused assessment
- Implementation triggers
- One time study



Variance & Exception Policy

- New Tool
- Structured Flexibility
- Salinity Component

TMDL Progress



- Pre-2014
 - ◆ Includes Delta
- 2014
 - ◆ Diazinon and Chlorpyrifos
- Pending 2015
 - ◆ Pyrethroids
 - ◆ Statewide Hg Reservoirs
- Only 500+ to go

TMDL Accomplishments

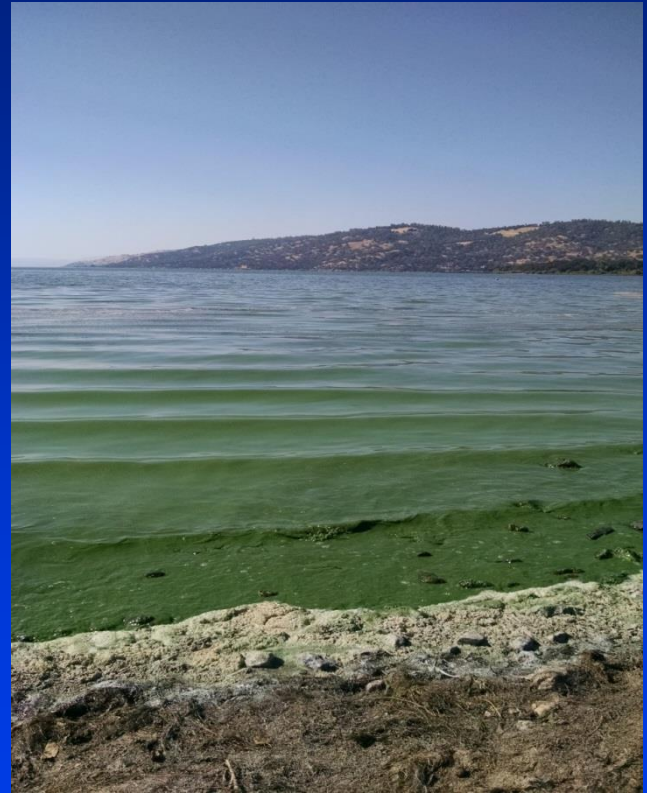
- Coordination with EPA Office of Pesticides, Department of Pesticide Regulations (DPR)
 - ◆ Urban Pesticide Pollution Prevention Partnership
- DPR
 - ◆ Initiating effort to address Fipronil
 - ◆ Improving reviews of new pesticides
 - ◆ Cyantraniliprole (“*cyan-tran-ili-prole*”)

Nonpoint Source Program

- Federal 319(h) or “Nonpoint Source”
 - ◆ Total Maximum Daily Load (TMDL)
 - ◆ Watershed and Integrated Regional Water Management (IRWM) Groups
 - ◆ Grazing Regulatory Action Project
- Funding
 - ◆ 06/07 – 5.1 PY
 - ◆ 09/10 – 3.95 PY
 - ◆ 14/15 – 3.6 PY

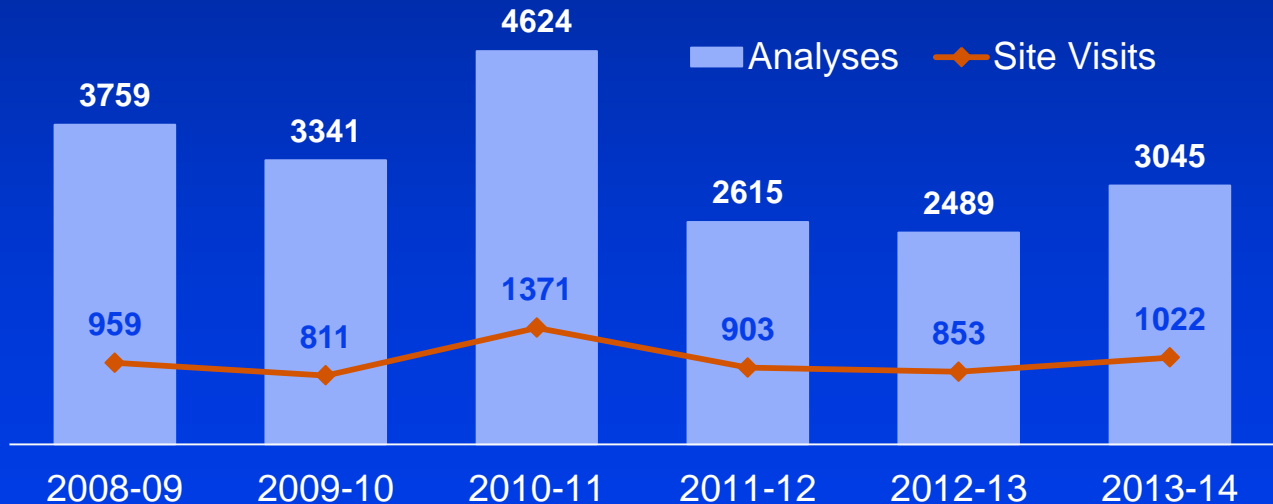
Nonpoint Source Program

- Clear Lake Nutrient TMDL
 - ◆ Forest Service road storm proofing grant
 - ◆ BLM sediment reduction project
 - ◆ Cyanobacteria Task Force
 - ◆ Westside IRWM Group



Surface Water Ambient Monitoring Program

Sampling Events and Analyses Conducted by Fiscal Year



Surface Water Ambient Monitoring Program



2014 Highlights:

- Sediment Studies
- Battle Creek Conservancy
- Final Pathogen Monitoring Report
- Collaborative Monitoring with DWR

Surface Water Ambient Monitoring Program

Planned for 2015:

- Microbial Source Tracking
- Chronic Toxicity Monitoring
- Mercury in Reservoirs



Special Planning Initiatives

- Statewide Reservoir Mercury TMDL
- CV-SALTS
- Delta Activities
- DWR California Water Plan

Statewide Reservoir Mercury TMDL



Source control



Water chemistry
(decrease methylation)



Data Compilation and Modeling

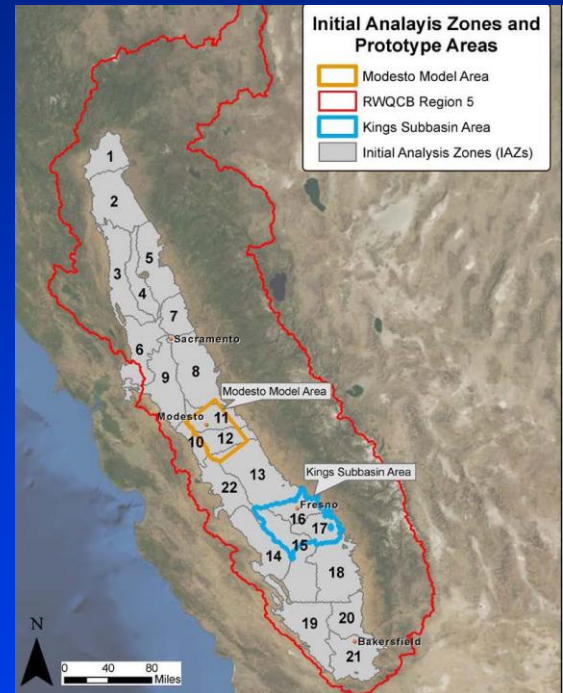
- ✓ Conceptual Model
- ✓ GIS Beneficial Use/ AGR Zone Efforts

Beneficial Use

- Tulare Lake Groundwater
- MUN in Ag Dominated Water bodies

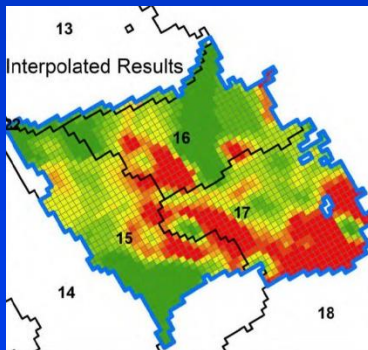
Water Quality Objectives

- ✓ Aquatic Life
- ✓ Stock Watering
- ✓ Salt Effects on Irrigated Ag
- ✓ Salt Effects on MUN
- Lower San Joaquin River



Implementation

- SSALTS (Accumulation and Transport)
 - Deep Well Injection
 - Salt Management Zones (Reuse/Containment)
 - Desalinization
 - Real-Time Salinity Management (LSJR River)
 - Regulated Brine Line/Ocean Disposal



- Alternate Compliance Strategies (Legacy Nitrate)
 - 1) Safe Drinking Water
 - 2) Reduced Loading
 - 3) Restore Groundwater

Delta Activities

● 2014 Delta Strategic Work Plan

- ◆ Delta Methyl Mercury Control Program
- ◆ Regional Monitoring Program
- ◆ Stockton DWSC Low Dissolved Oxygen Control Program
- ◆ Nutrient Research Plan

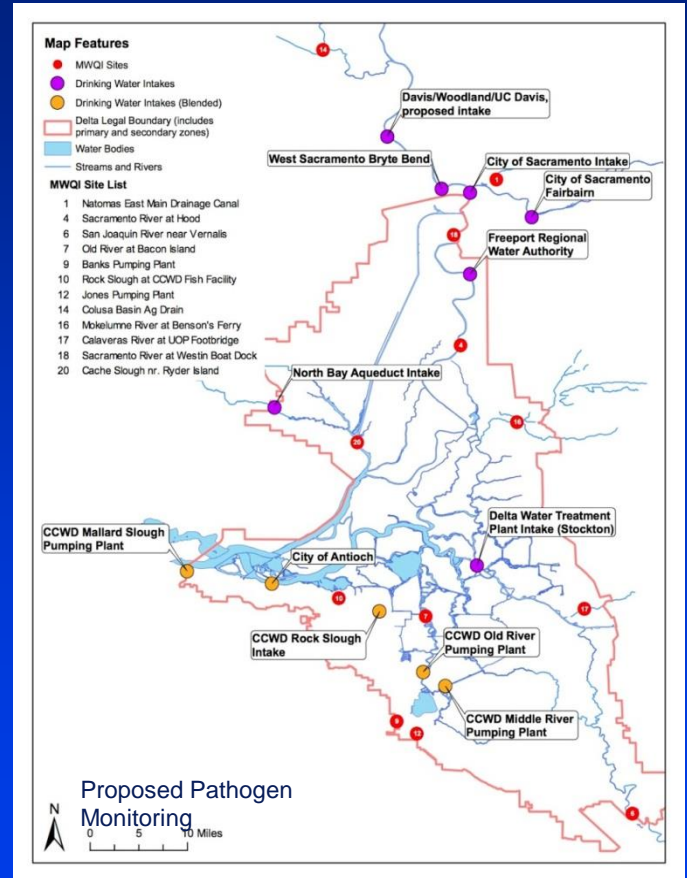
Delta Methyl Mercury

- Methylmercury studies underway
- Exposure reduction activities starting



Delta RMP

- Stakeholder lead
- Initial draft funding allocations approved
- Designs for
 - Pathogen (April 2015)
 - Pesticides/toxicity
 - Nutrients
 - Mercury



San Joaquin River Dissolved Oxygen Control Program

- Studies Completed**
- Draft Staff Report – Public Review**
- Draft Resolution - February 2015**
- Improved DO Conditions**



Nutrient Research Plan

- **Stakeholder & Technical Advisory Group established**
- **Science Work Groups being formed.**
- **White papers and a Nutrient Research Plan available next year**



California Water Plan

- Update 2013 released 10/30/2014
 - ◆ All three offices provided content:
 - Five of the twelve regional reports
 - Resource Management Strategies
 - **Drafted and updated the *Salt and Salinity Management RMS***
 - Participated in crosscutting teams
 - **Statewide Water Analysis Network**
 - **Groundwater Caucus**
 - **Water Quality Caucus**

New/Emerging Programs and Activities

Water Board/US Forest Service Memorandum of Understanding BAER Team

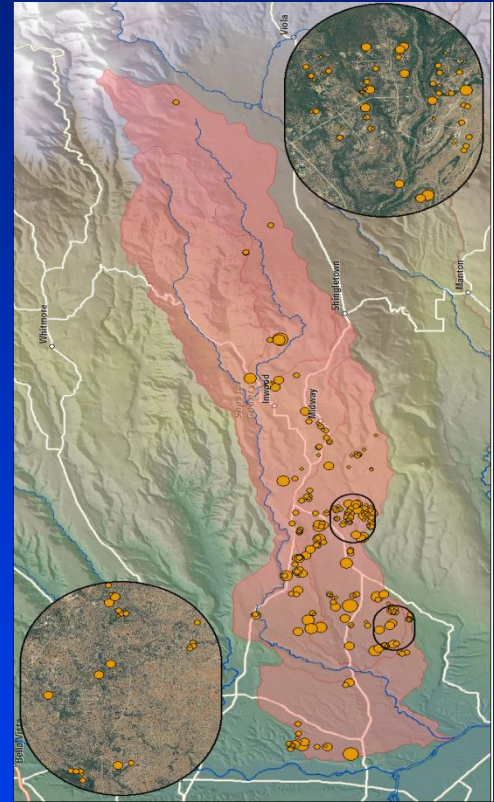
MOU Components:

- Hazard & overtime pay
- Specialized training
- Personal Protective Equipment
- Annual physical exams



Marijuana Waste Discharge Program

- Pilot Program
 - Permitting
 - Enforcement
 - Education & Outreach
 - Coordination w/ Other Agencies
- Coordinate with F&W
- 4 PYS



Marijuana Program Accomplishments

- Statewide Program Strategy
- Cannabis Identification and Prioritization System
- Extensive Coordination
- Health and Safety Plan
- 4 new staff hired
- 7 coordinated inspections under warrants

Marijuana Program

Next Year

- Staff Training
- Develop Regulatory Mechanism
- Extend Public Outreach and Education
- Identify funds/mechanisms to cleanup cultivation sites with no responsible parties
- Establish permanent funding for program
- Update Board and public on program

Grazing Regulatory Action Project (GRAP)

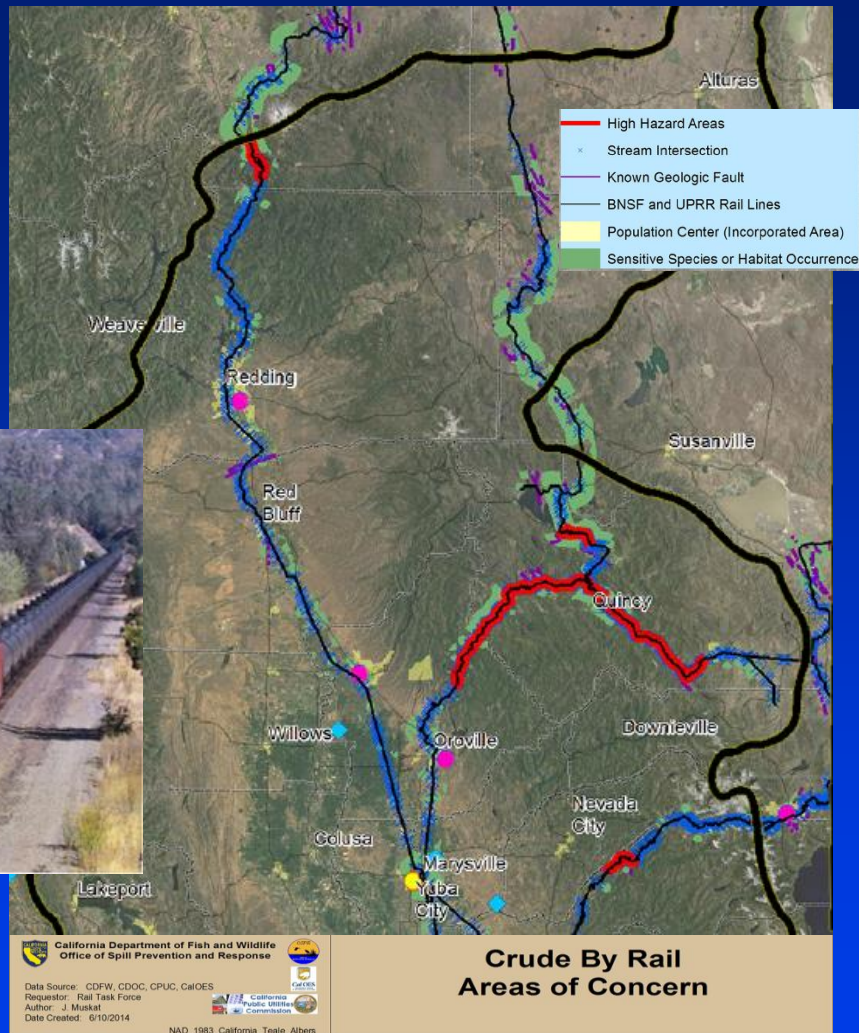
- Statewide regulatory strategy to address water quality impacts related to livestock grazing
- Focused Listening Sessions (stakeholder outreach)
- Draft Proposal in 2015



Rail Concerns

November 25, 2014 Derailment near Big Bar, Feather River Canyon

Bakken Crude



Organizational

Organizational

- New AEOs in Sacramento
- New Supervisors in Sacramento
- Portfolio Management
- Electronic Content Management
- Increased Outreach and Access

Portfolio Management

Transparency, Accountability, Efficiency At all Levels

2007	Program Managers Roles & Responsibilities
2008 to 2010	Significant investments in project management training
2011	Project Management Implementation Strategy
2012	Leadership Education Series
2013	Portfolio Management Concept Development
2014	Portfolio Management Rollout & Implementation

Programs

Program	Program Manager	Executive Sponsor	Office
Basin Planning	Jeanne Chilcott	Adam Laputz	Rancho Cordova
CV-SALTS	Jeanne Chilcott	Adam Laputz	Rancho Cordova
Dairies	Doug Patteson	Clay Rodgers	Fresno
Enforcement	Robert LHeureux	Andrew Altevogt	Rancho Cordova
Forest Activities/Timber	Angela Wilson	Clint Snyder	Redding
Irrigated Lands	Joe Karkoski	Adam Laputz	Rancho Cordova
Marijuana	Clint Snyder	Clint Snyder	Redding
Mines	Phil Woodward	Clint Snyder	Redding
Non-Point Source	Sue McConnell	Adam Laputz	Rancho Cordova
NPDES	Nichole Morgan	Adam Laputz	Rancho Cordova
Oil Fields	Clay Rodgers	Clay Rodgers	Fresno
Site Cleanup	Duncan Austin	Andrew Altevogt	Rancho Cordova
Storm Water	Bryan Smith	Clint Snyder	Redding
SWAMP	Susan Fregien	Adam Laputz	Rancho Cordova
Title 27/Land Disposal	Robert Busby	Andrew Altevogt	Rancho Cordova
TMDL	Jeanne Chilcott	Adam Laputz	Rancho Cordova
Underground Storage Tanks	Brian Newman	Andrew Altevogt	Rancho Cordova
Water Quality Certifications	Bryan Smith	Clint Snyder	Redding
WDRs	Lonnie Wass	Clay Rodgers	Fresno

Portfolio Management

Next Steps – FY 2015/2016

- Align Program Manager and Managing Senior Roles and Responsibilities
- Improve Programmatic Work Plan Effectiveness
- Align Programmatic Work Plans w/ Budget and PY Distribution
- Further Education to foster more efficient and effective work flow

Electronic Content Management (ECM)

- Document management tool
- Implemented Phase I in October
 - ◆ Ability to receive, forward, file, and track mail electronically
- Notable increase in emails
 - ◆ Approx. 400-500 emails per month
 - ◆ Approx. 2,500 pieces of mail per month
- Dischargers notified of the ECM process
 - ◆ Encouraged to submit documents electronically

Electronic Content Management (ECM)

- Anticipate widespread use of ECM from the public next year
- Goal: decrease pieces of mail by 50% within 6 months
- Late July 2015 Planned Implementation of Phase 2
 - ◆ Create, route and track documents
 - ◆ Allows version control

Environmental Justice

Increased Outreach to DACs



Central California Environmental Justice Network,
“Roots of Resilience Conference”, 2014

Environmental Justice Staff Activity



Kern Environmental Enforcement Network
Fresno Environmental Reporting Network

Environmental Justice Efforts – Supplemental Environmental Projects (SEPs)

- Collaboration with Rose Foundation
 - ◆ Resolution Supporting DACs
 - ◆ Two Settlements funding the Community Water Center (>\$230,000)
- Other SEPs
 - ◆ West Goshen Drinking Water Supply Project (\$150,000)



**West Goshen Water
Supply Project**

Special Projects

Demonstration Pilot
Project for Biological
Denitrification of Rural
Community Groundwater,
Paradise Colony



**Biological Treatment Pilot
Unit**

Coming Year

- Succession Planning
- Lean Sigma Six – WDR Program
- Review of NPDES Program
- Reinitiate Strategic Plan Development

Summary

- Exceptional, highly qualified technical staff
- Superb support staff
- Outstanding leadership team
- Significant achievements
 - ◆ Addressing very complex issues/problems
 - ◆ Available resources

Questions?

